

Fig. 1. The mevalonate pathway (11).

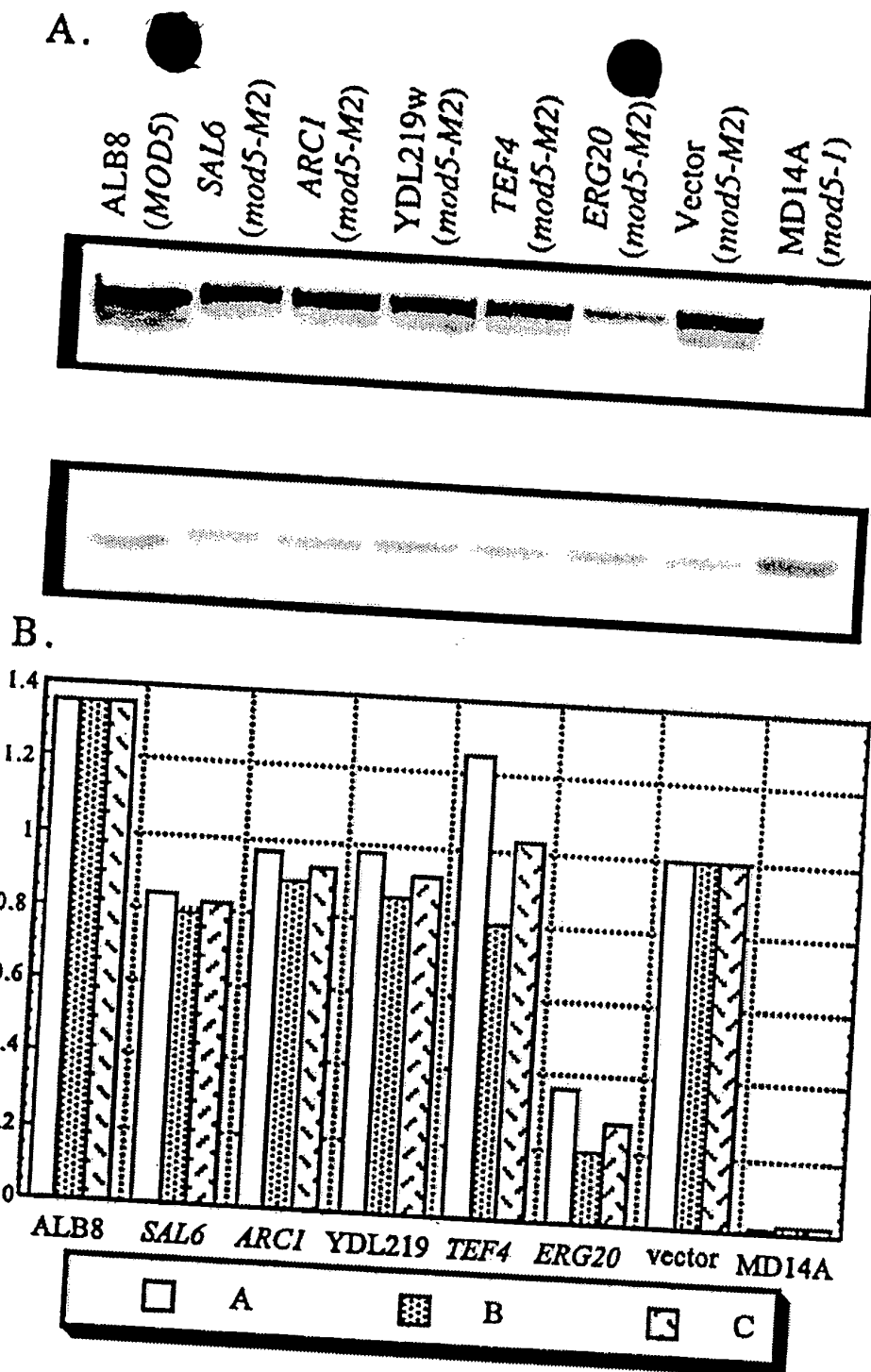
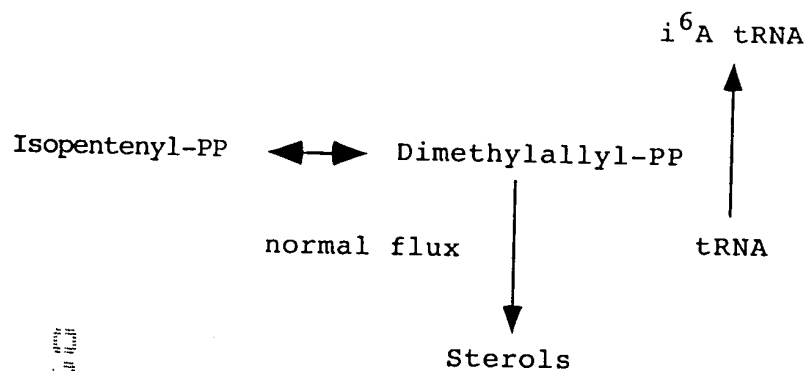


Fig. 2. The level of isopentenylated tRNA found in ALB1 overexpressing *ERG20* is reduced substantially. (A) Low-molecular-weight RNA was prepared from ALB1 (*mod5-M2*) with each of the candidate genes or vector alone, ALB8 (*MOD5*), or MD14A (*mod5-1*). The RNAs were resolved on polyacrylamide gels, transferred to membranes, and probed with anti-isopentenyl adenosine antibody (*Upper*) or radiolabeled oligonucleotide complementary to mature tRNA<sup>Tyr</sup> (*Lower*). (B) The levels of isopentenyl adenosine tRNA found in ALB1 were assessed by densitometric analysis of two immunoblots and expressed as a fraction of the level found in the "vector" control. A, membrane 1 values; B, membrane 2 values; C, average values.

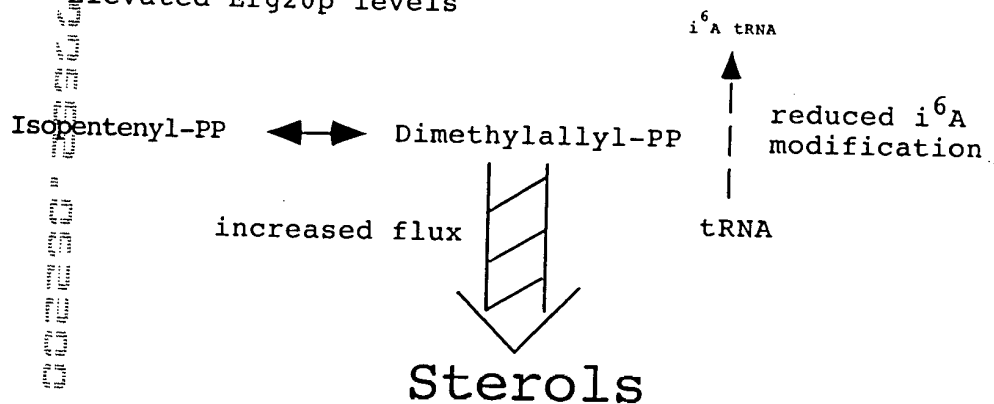
### A. Normal Erg20p levels



Phenotype of ALB1 cells

white/light pink colonies; growth on -ade media; no growth on canavanine-containing media

### B. Elevated Erg20p levels



pink/red colonies; poor growth on -ade media; able to grow on canavanine-containing media

Fig. 3. Model of competition between  $i^6A$  modification of tRNA and sterol biosynthesis.

Snabi  
TATACGT

HindIII  
~~AATCTC~~AAG CTT AAG GGA CC

GGT TGC TTA ~~AA~~ ATT TCT AA  
Gly Cys Leu Asn Ile Ser

MI

M2

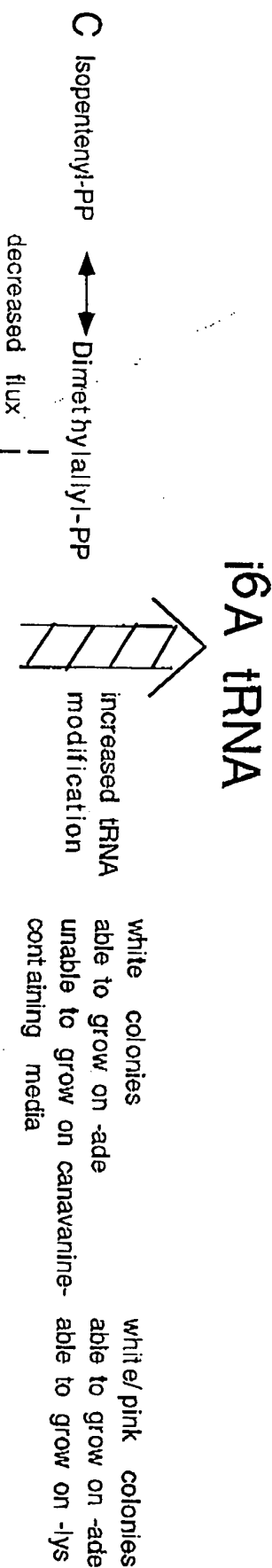
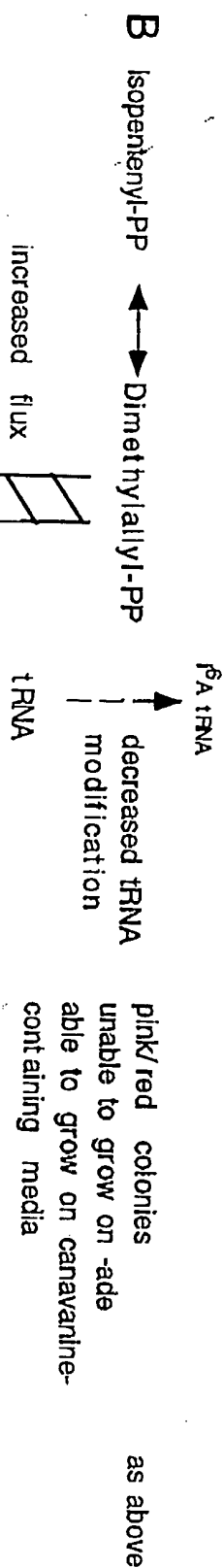
## FIGURE 4

[illegible]

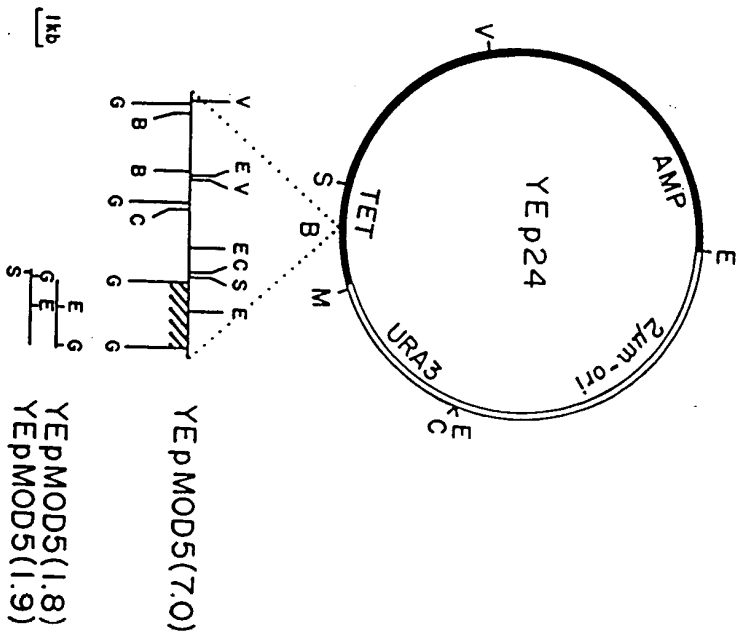
# Phenotype of Yeast

ALB1

T8-1D (YGmod5) M2 KR6



**FIGURE 5**



YE p24; , yeast sequences of vector YE p24; , insert of yeast genomic DNA; ; 1.8-kb *Bgl*II fragment used as a probe and fragment in YE pMOD5(1.8) and YCPMOD5 (1.8). B, *Bam*HI; C, *Cla*I; E, *Eco*RI; G, *Bgl*II; M, *Sma*I; S, *Sal*I; V, *Pvu*II.

**FIGURE 6**